

## INTERNATIONAL SEARCH REPORT

International Application No

/GB2004/004476

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 E21B33/13

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 472 052 A (HEAD PHILIP F) 5 December 1995 (1995-12-05)	1,2,4-15
Y	column 3, line 19 – column 3, line 29 column 2, line 39 – column 2, line 42 column 7, line 25 – column 7, line 28 figures 1-19	3
X	GB 2 309 717 A (UWG LTD) 6 August 1997 (1997-08-06)	1,8
Y	page 6, line 10 – page 6, line 20 page 9, line 9 – page 9, line 13 page 11, line 22 – page 11, line 26	3
X	US 5 372 198 A (NORTH JOHN C ET AL) 13 December 1994 (1994-12-13) claim 1; figures 1-8	1,8
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
24 January 2005	07/02/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer  Stroemmen, H.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 305 683 A (HEAD PHILIP) 16 April 1997 (1997-04-16) claims 1,2; figures 1-19 -----	1,8
A	US 6 595 289 B2 (TUMLIN DAVID MOORE ET AL) 22 July 2003 (2003-07-22) abstract -----	1-15
A	US 4 688 640 A (PRITCHARD JR JOHN J) 25 August 1987 (1987-08-25) abstract -----	1-15

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## INTERNATIONAL SEARCH REPORT

International Application No

L/GB2004/004476

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5472052	A	05-12-1995	AU CA GB GB NO	6476294 A 2126289 A1 2279092 A ,B 2305683 A ,B 942045 A	22-12-1994 20-12-1994 21-12-1994 16-04-1997 20-12-1994
GB 2309717	A	06-08-1997		NONE	
US 5372198	A	13-12-1994	GB	2275282 A	24-08-1994
GB 2305683	A	16-04-1997	AU CA GB NO US	6476294 A 2126289 A1 2279092 A ,B 942045 A 5472052 A	22-12-1994 20-12-1994 21-12-1994 20-12-1994 05-12-1995
US 6595289	B2	07-11-2002	US CA WO GB US	2002162657 A1 2452825 A1 02090711 A2 2393198 A 2003056953 A1	07-11-2002 14-11-2002 14-11-2002 24-03-2004 27-03-2003
US 4688640	A	25-08-1987		NONE	

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